

### ***Claim Amendments***

1       Claim 1 (currently amended): A rotatable control rod mechanism, comprising:

2                 (a) a rod having a spiral thread configuration;

3                 (b) a spiral thread follower mounted on the rod for rotating the rod in

4         opposite directions when the spiral thread follower is translated along the rod in opposite

5         directions and gripped externally to prevent rotation thereof;

6                 (c ) a handle mounted over the spiral thread follower, the handle and the spiral

7         thread follower having mating surfaces configured such that the handle rotates freely for rotation

8         about the spiral thread follower, the handle adapted for being gripped externally and moved in

9         opposite directions along the rod with the spiral thread follower, thereby allowing the spiral

10      thread follower to be rotated in opposite directions by the rod when the handle and spiral thread

11      follower are translated together along the rod and the spiral thread follower is not gripped; and

12                 (d) the spiral thread follower further comprising a section which is exposed

13         relative to the handle to allow selectively gripping the spiral thread follower to selectively

14         prevent rotation thereof when the handle and the spiral thread follower are translated together

15         along the rod.

1       Claim 2 (currently amended): A rotatable control rod mechanism, comprising:

2                 (a) a rotatable load;

3                 (b) a rod having a spiral thread configuration ;

4                 (c ) a connector connecting the rod to the load for rotating the load and rod

5         together;

6                 (d) a spiral thread follower mounted on the rod for rotating along the rod

7         in opposite directions following the spiral thread configuration, the spiral thread follower

8         having a collar for receiving application of an external force applied to the collar to

9         prevent rotation of the spiral thread follower; and

10                 (e) a handle mounted over and rotatably captured to the spiral thread

11         follower such that the handle and the spiral thread follower move together when one is

12         moved along the rod and the handle and the spiral thread follower having mating surfaces

13       configured such that the spiral thread follower freely rotates around the handle in the  
14 absence of said external force, the handle being proximate to and exposing the collar to  
15 application of said external force, whereby applying said external force while moving the  
16 handle and spiral thread follower together in opposite directions along the rod rotates the  
17 rod in opposite directions, and the absence of said external force while moving the  
18 handle and spiral thread follower together in opposite directions along the rod allows the  
19 rod to rotate the spiral thread follower in opposite directions.

1       Claim 3 (currently amended): A plural stroke control rod mechanism, comprising:

2               (a) a rotatable shaft;  
3               (b) a rod having spiral convolutions;  
4               (c) a connector connecting the rod to the shaft for rotating the shaft and  
5       rod together; and

6               (d) a handle device, comprising:

7                       (1) a stepped cylinder comprising a first upper section or collar and a  
8 second lower section or tube having a bottom end; the outer diameter of the collar being  
9 of large dimension relative to the outer diameter of the tube; and the stepped cylinder  
10 having a longitudinal axis and having an internal axially-extending bore mounting the  
11 stepped cylinder along the rod for rotation along the spiral convolutions of the rod;

12                       (2) a handle comprising a member having upper and lower ends, a  
13 longitudinal axis and an axial bore therein extending to the upper and lower ends thereof,  
14 the member ~~rotatably~~ mounting the tube of the stepped cylinder therein with the relatively  
15 large diameter collar protruding from and rotatably seated along the upper end of the  
16 member, and the tube and the handle member having mating surfaces configured such  
17 that the tube and the stepped cylinder rotate freely within the handle; and

18                       (3) the member and the collar comprising surfaces for gripping the  
19 member to move the handle device bidirectionally along the spiral rod and for gripping  
20 the collar to selectively prevent rotation of the collar, thereby selectively preventing  
21 rotation of the stepped cylinder and thereby selectively forcing rotation of the spiral rod  
22 during such bidirectional movement.

1       Claim 4 (withdrawn): A method for reversibly and repeatedly rotating a rod having a  
2       spiral thread configuration, a thread follower mounted on the rod and a handle rotatably  
3       mounted over the spiral thread follower exposing a section of the spiral thread follower,  
4       the method comprising: first, engaging the exposed section to prevent rotation of the  
5       section and the spiral thread follower and translating the spiral thread follower along the  
6       rod in a first or a second direction of translation and thereby rotating the rod in a first or a  
7       second direction of rotation, respectively; and, second, engaging the handle to prevent  
8       rotation thereof while allowing rotation of the section and the spiral thread follower  
9       around the rod and translating the handle and the spiral thread follower along the rod in a  
10      first or a second direction of translation, thereby positioning the handle and the spiral  
11      thread follower for another first step.

1       Claim 5 (withdrawn): A method for reversibly and repeatedly rotating a rotatable load,  
2       comprising:

3                 (a) connecting to the load a rod having spiral convolutions;  
4                 (b) mounting on the rod a spiral thread follower having a collar and a  
5       handle rotatably mounted along the spiral thread follower exposing the collar;  
6                 (c ) selectively engaging the collar to prevent rotation thereof and sliding  
7       the handle along the rod in a first direction of translation or a second, opposite direction  
8       of translation, thereby rotating the rod in a first direction of rotation or a second, opposite  
9       direction of rotation; and  
10                 (d) selectively sliding the handle along the rod in the first or second  
11       direction of translation without engaging the collar sufficiently to prevent rotation  
12       thereof, thereby repositioning the handle along the rod in the first or second direction of  
13       translation without rotating the rod.

1       Claim 6 (previously presented): The control rod mechanism of claim 3:

2                 (4) the bottom end of the tube protruding from the lower end of the member; and  
3                 (5) a retainer attached to the bottom end of the tube for rotatably capturing the  
4       member between the connector and the collar.